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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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NUTTER MCCLENNEN & FISH LLP WORLD TRADE CENTER WEST 155 SEAPORT BOULEVARD			EXAMINER	
			NGO, HUNG V	
BOSTON, M	A 02210-2604		ART UNIT	PAPER NUMBER
			2831	
			DATE MAILED 07/17/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office	Action	Summary	

Application No.

10/076,124

Applicant(s)

Examiner

Hung V. Ngo

Art Unit 2831

Banton et al



-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) X Responsive to communication(s) filed on Apr 10, 2003 2a) This action is **FINAL**. 2b) X This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213. Disposition of Claims is/are pending in the application. 4) X: Claim(s) 1-18 4a) Of the above, claim(s) ______ is/are withdrawn from consideratio 5) Claim(s) is/are allowed. 6) X Claim(s) 1-18 is/are rejected. 7) Claim(s) is/are objected to. 8) Claims are subject to restriction and/or election requirement **Application Papers** 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on ______ is/are a accepted or b objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved by disapproved by the Examine If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e). a) The translation of the foreign language provisional application has been received. 15) Law Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 1) X Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s). 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application (PTO-152) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s). 6) Other:

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 10 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 10, lines 1, 2, "the heat dissipative elements" lack antecedent basis.

Claim 10 is not considered over the prior art because of 35 usc 112 problems.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-6, 8, 11-17 are rejected under 35 U.S.C. 102(b) as being anticipated by Bivona et al.

Bivona et al disclose a circuit board or substrate (100), at least one component (102), a cover (104) comprising a planar member, at least one structure element (106, 302) comprising an interface coolant (re claims 1, 8, 11).

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Re claims 2-6, 12-14, See Fig 3.

Re claim 15, the cover of Bivona et al is functioning as claimed.

Re claims 16, 17, the planar member is for cooling (title)

Claims 1-9, 11-18 are rejected under 35 U.S.C. 102(b) as being anticipated by Davidson.

Davidson discloses a circuit board or substrate (20), at least one component, a cover (1) comprising a planar member (5), at least one structure element (7) (re claims 1, 11).

Re claims 2-7, 12-14 See Fig 2.

Re claims 8, 16, 17, the structure element of Davidson made of metal (col 3, line 50) which inherently dissipates heat.

Re claims 9, 18, see col 2, lines 25-32.

Re claim 15, see Fig 2.

Communication

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hung V. Ngo whose telephone number is (703) 308-7614. The examiner can normally be reached on Monday to Friday from 9:30 am to 06:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dean Reichard, can be reached on (703) 308-3682.

The fax phone number for this Group is (703) 872-9318 (Before Final) or (703) 872-9319 (After Final).

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0956.

Hung V. Ngo

June 11, 2003

Hos V Nezi

HUNG V. NGO PRIMARY EXAMINE